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NOTICE OF ALLOWANCE AND FEE(S) DUE

30678

7590

07/17/2008

CONNOLLY BOVE LODGE & HUTZ LLP 1875 EYE STREET, N.W. SUITE 1100 WASHINGTON, DC 20036

EXAMINER				
AKANBI, ISIAKA O				
ART UNIT	PAPER NUMBER			
2006				

DATE MAILED: 07/17/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/707,864	01/19/2004	Robert T. Froebel	BUR920030140US1	1863

TITLE OF INVENTION: ALIGNMENT MARK SYSTEM AND METHOD TO IMPROVE WAFER ALIGNMENT SEARCH RANGE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	10/17/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further of indicated unless correcte maintenance fee notificat	d below or directed oth	g the Patent, advance of erwise in Block 1, by (a	rders and notification of material a) specifying a new corresponding a new corresponding to the material and	paintenance fees will condence address; a	ll be m and/or	nailed to the current (b) indicating a sepa	correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)			Feel	Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanyin papers. Each additional paper, such as an assignment or formal drawing, mushave its own certificate of mailing or transmission.			
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1875 EYE STRE SUITE 1100		HUTZ LLP	I her State addr trans	eby certify that this	Fee(s)	of Mailing or Transon Transmittal is being icient postage for firs SSUE FEE address) 273-2885, on the day	deposited with the United t class mail in an envelope above, or being facsimile ate indicated below.
WASHINGTON	, DC 20036						(Depositor's name)
							(Signature)
			<u> </u>				(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	1	ATTOR	NEY DOCKET NO.	CONFIRMATION NO.
10/707,864	01/19/2004	•	Robert T. Froebel	•	BUR	R920030140US1	1863
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nonprovisional	NO	\$1440	\$300	\$0		\$1740	10/17/2008
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EXAM		ART UNIT	CLASS-SUBCLASS				
AKANBI, I 1. Change of corresponde		2886	356-399000 2. For printing on the pa				
Tree Address" indi	ondence address (or Chai 3/122) attached. cation (or "Fee Address" 2 or more recent) attach	'Indication form	(1) the names of up to or agents OR, alternativ (2) the name of a single registered attorney or a 2 registered patent attor listed, no name will be	ely, e firm (having as a r gent) and the names neys or agents. If no	nember	r a 2	
	ess an assignee is identi n in 37 CFR 3.11. Comp		THE PATENT (print or typ data will appear on the pa T a substitute for filing an a (B) RESIDENCE: (CITY	tent. If an assignee assignment.			ocument has been filed for
Please check the appropri	ate assignee category or	categories (will not be pr	rinted on the patent): \Box	Individual 📮 Cor	poratio	n or other private gro	up entity 🚨 Government
4a. The following fee(s) are submitted: Issue Fee Publication Fee (No small entity discount permitted) Advance Order - # of Copies		b. Payment of Fee(s): (Plea A check is enclosed. Payment by credit care The Director is hereby overpayment, to Depos	I. Form PTO-2038 authorized to charge	is attacle the re	hed.	,	
5. Change in Entity Stat	tus (from status indicated s SMALL ENTITY statu		☐ b. Applicant is no long	er claiming SMALI	L ENT1	ITY status. See 37 CF	FR 1.27(g)(2).
NOTE: The 1ssue Fee and interest as shown by the r	d Publication Fee (if requecords of the United Stat	nired) will not be accepte tes Patent and Trademark	ed from anyone other than the Office.	ne applicant; a regist	ered at	torney or agent; or th	e assignee or other party in
Authorized Signature				Date			
This collection of informan application. Confident submitting the completed this form and/or suggestic Box 1450. Alexandria, V.	ation is required by 37 C iality is governed by 35 I application form to the ons for reducing this bur irginia 22313-1450. DO	FR 1.311. The informaticulused in 122 and 37 CFR USPTO. Time will vary den, should be sent to the NOT SEND FEES OR	on is required to obtain or re 1.14. This collection is esti 7 depending upon the indivite the Chief Information Office COMPLETED FORMS TO	etain a benefit by the mated to take 12 mi dual case. Any con r, U.S. Patent and T D THIS ADDRESS.	e public inutes t nments radema SEND	c which is to file (and to complete, includin on the amount of tir ark Office, U.S. Depa TO: Commissioner	by the USPTO to process) g gathering, preparing, and ne you require to complete utment of Commerce, P.O. for Patents, P.O. Box 1450,

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10/707,864	01/19/2004	Robert T. Froebel	BUR920030140US1 1863		
30678 75	90 07/17/2008	EXAMINER			
CONNOLLY BOVE LODGE & HUTZ LLP			AKANBI, ISIAKA O		
1875 EYE STREET, N.W.		ART UNIT PAPER NUMBER			
SUITE 1100 WASHINGTON, I	OC 20036		2886 DATE MAILED: 07/17/200	8	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 83 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 83 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)		
	10/707,864	FROEBEL ET AL.		
Notice of Allowability	Examiner	Art Unit		
	ISIAKA O. AKANBI	2886		
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	lication. If not included will be mailed in due course. TF		
1. This communication is responsive to <u>24 April 2008</u> .				
2. The allowed claim(s) is/are <u>1,4,5,7 and 10-16</u> .				
 3. ☐ Acknowledgment is made of a claim for foreign priority unended as a claim for foreign priority documents have a claim for foreign priority documents have a claim for foreign priority documents have a claim foreign priority documents have a	been received. been received in Application No			
 Copies of the certified copies of the priority doc International Bureau (PCT Rule 17.2(a)). 	cuments have been received in this r	iational stage application from tr	ne	
* Certified copies not received:				
Applicant has THREE MONTHS FROM THE "MAILING DATE" on noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements	;	
4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give			:	
5. CORRECTED DRAWINGS (as "replacement sheets") mus	et be submitted.			
(a) ☐ including changes required by the Notice of Draftspers	on's Patent Drawing Review (PTO-	948) attached		
1) hereto or 2) to Paper No./Mail Date				
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date				
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the				
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I				
Attachment(s)	5 D Notice of Information	ataut Application		
 Notice of References Cited (PTO-892) Notice of Draftperson's Patent Drawing Review (PTO-948) 	5. ☐ Notice of Informal Page6. ☐ Interview Summary	• •		
	Paper No./Mail Date	e .		
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	7. 🛛 Examiner's Amendn			
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ☑ Examiner's Stateme9. ☐ Other	nt of Reasons for Allowance		
	о. <u>П</u> опот <u> </u>			

DETAILED ACTION

Examiner's Comment

It should be noted that the amendment filed on 04/24/08 identify claims 2, 3, 6, 8 and 9 as "withdrawn" whereas the amendment filed on 07/27/2006 indicated the claims as canceled. Since, there was no restriction requirement in the application, the indication of claims 2, 3, 6, 8 and 9 being canceled are correct.

Allowable Subject Matter

Claims 1, 4, 5, 7, and 10-16 are allowed.

As to claims 1, 11, and 14, the prior art of record, taken alone or in combination, fails to disclose or render obvious wherein, when the width Z of the first alignment signal source and the second alignment signal source equals a width W of the X mark and the Y mark, respectively, single points of the maximum received signal strengths indicates an exact location of the center of each the X mark and the Y mark, in combination with the rest of the limitations of the claim. Claims 4, 5, 7, 10, 12, 13, 15 and 16 are allowable by virtue of their dependency.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Isiaka Akanbi whose telephone number is (571) 272-8658. The examiner can normally be reached on 8:00 a.m. - 4:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

Page 3

supervisor, Tarifur R. Chowdhury can be reached on (571) 272-2287. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Isiaka Akanbi

July 15, 2008

/TARIFUR R CHOWDHURY/

Supervisory Patent Examiner, Art Unit 2886